(c) and (d) The Indian Council of Medical Research has guidelines similar to those of the World Health Organisation. These guidelines have been strictly adhered to while conducting clinical trials of this vaccine which has many meritorious characteristics and further development of vaccine would continue as per the prescribed protocols.

Setting up of Modern Nework o Monitor Quakes in Latur

3264. SHRI B. K. HARIPRASAD: Will the PRIME MINISTER be pleased to state:

(a) whether it is fact that a modern network, with latest imported equipment, is being set up to intensively monitor, even minor tremor in quake hit Latur area of Maharashtra as reported in Deccan Herald, dated the 5th January, 1994;

(b) what are the salient findings of the expert committee headed by Dr. B. K. Rao which inquired into the Latur earthquake; and

(c) whether it is a fact that the Himalayan region has been studied extensively for seismicity, while the peninsular region, in which Maharashtra-Karnataka quake-prone belt falls was not fully studied or monitored?

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS, PARLIAMENTARY AFFAIRS AND IN THE DEPARTMENTS OF ELECTRONICS AND OCEAN DEVELOPMENT (SHRI EDUARDO FALEIRO): (a) A Project has been formulated by the Department of Science and Technology (DST) to establish a network of seismic observatories equipped with modern seismographs with special emphasis on Deccan Plateau including Lature area of Maharashtra. A permanent modern seismological observatory has already been set up by the India Meteorological Department at Latur on Dec. 20, 1993.

(b) Major findings of the Committee indicate that the following actions are to be taken:

—Modernisation and expansion of seismological network in peninsular shield to monitor the earthquakes down to magniture 3.

—Undertaking of integrated surveys using remote sensing and other geophysical methods to map lineaments and other possible seismogenic features.

—Establishment of a centralised data centre.

—Strengthening of manpower by providing suitable training facilities.

—Establishment of an overseeing and coordinating mechanism for seismological activities in the country.

(c) The Himalayan region which is a part of the Alpine-Himalayan seismic belt, is seismically active and is closely monitored. Peninsular region is also monitored through national and local seismological networks including a modern array station. However, since the region is relatively less active, the network is not very dense.

Patenting of Micro-Organisms

3265. SHRI N. GIRI PRASAD: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that a Delhi based environmental organisation 'Kalpavriksh' has given shocking evidence about patenting of micro-organisms collected by US firms from India; and

(b) if so, the details thereof and what steps are being taken to demand repatriation of samples of bio-diversity taken from India in the past?

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS, PARLIAMENTARY AFFAIRS AND IN THE DEPARTMENTS OF ELECTRONICS AND OCEAN DEVELOPMENT (SHRI EDUARDO FALEIRO): (a) and (b) The Pioneer News Paper report of 14.2.1994 had quoted about the information provided by 'Kalpavriksh', and Indian Non-Governmental Environmental Group, that according to a Canadian Research and

Action Group called Rural Advancement Foundation International, several micro-organisms of Indian origin had been patonted in USA and microbial cultures had been maintained at the American Type Culture Collection, Maryland USA. The Indian Patent Act does not provide for patenting of micro-organisms. Information on the number of micro-organisms patented by US Firms is not maintained by the Govt. of India.

Malpractices in Nuclear Science Centre

3266. SHRI BRAHMADEO ANAND PASWAN: Will the PRIME MINISTER be pleased to state:

(a) whether Government have received any complaints regarding malpractices in the construction etc. in the Nuclear Science Centre, New Delhi;

(b) if so, what action has been taken by Government; and

(c) if not, by when Government propose to take action?

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS, PARLIAMENTARY AFFAIRS AND IN THE DEPARTMENT OF ELECTRONICS AND OCEN DEVELOPMENT (SHRI EDUARDO FALEIRO): (a) to (c) The Information is being collected and will be laid on the Table of the House.

अनुसंधान का इष्टतम उपयोग

3267. **श्री राम जेठमलानी :**

डा० जिनेन्द्र कुमार जैन :

क्या प्रधान मंत्री यह बताने की कृपा करेंगे कि :

(क) क्या सरकार का ध्यान 20 दिसम्बर, 1993 के इंडियन एक्सप्रेस में "ए बाउंट ऑफ वेस्टेड रिसर्च" शीर्षक के अन्तर्गत प्रकाशित समाचार की ओर गया है;

(ख) यदि हां, तो क्या यह भी सच है कि देश के विभिन्न अनुसंधान संस्थाओं में अनुसंधानकर्ताओं द्वारा किये गये अनुसंधान को व्यावहारिक रूप देकर उसका लाभ समाज को देने के लिये कोई उपलब्ध नहीं है ;

(ग) यदि नहीं, तो इस संबंध में सरकार की क्या प्रतिक्रिया है ;

(घ) क्या सरकार ऐसी योजना क्रियान्वित करने पर गंभीरता से विचार कर रही है जिसके अधीन सभी प्रकार के सफल शोध कार्यों का लाभ समाज तक पहुंचाने के लिये देश में एक स्थायी व्यवस्था हो सके ; और

(ङ) यदि नहीं, तो उसके क्या कारण हैं ?

रसायन और उर्वरक, संसदीय कार्य मंत्रालय, इलैक्ट्रानिकी तथा महासागर विकास विभागों में राज्य मंत्री (श्री एडुआर्डो फेलेरियो) : (क) जी, हां ।

(ख) से (ङ) सरकार ने समाचार में उल्लिखित परिस्थिति की और पर्यावरण के क्षेत्रों से संबंधित अनेक कार्यक्रम शुरू किये हैं। इनका उद्देश्य विज्ञान और प्रौद्योगिकी निवेशों द्वारा सामाजिक आर्थिक विकास के लिये समाज को लाभ पहुंचाना है । इनमें से कुछ कार्यक्रमों को अन्तरिक्ष विभाग के राष्ट्रीय प्राकृतिक संसाधन प्रबंध कार्यक्रम, विज्ञान और प्रौद्योगिकी विभाग के प्राकृतिक संसाधन आंकड़ा प्रबंध प्रणाली एवं विज्ञान और समाज कार्यक्रम और पर्यावरण मंत्रालय के परती भूमि विकास कार्यक्रम के अधीन सहायता दी गई है ।

छोटे और बड़े उद्योगों द्वारा अनुसंधान और विकास पर खर्च की गई राशि

3268. **डा० जिनेन्द्र कुमार जैन :** क्या प्रधान मंत्री यह बताने की कृपा करेंगे कि :

(क) क्या यह सच है कि विज्ञान और प्रौद्योगिकी विभाग द्वारा किए गये सर्वेक्षण के अनुसार देश में बड़े उद्योगों